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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/511,989	05/25/2005	Jenny P Y Ting	5470-368	4540
	7590 09/30/200 L SIBLEY & SAJOVE	EXAMINER		
PO BOX 37428			BURKHART, MICHAEL D	
RALEIGH, NC 27627			ART UNIT	PAPER NUMBER
			1633	
			MAIL DATE	DELIVERY MODE
			09/30/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/511,989	TING ET AL.
Office Action Summary	Examiner	Art Unit
	MICHAEL BURKHART	1633
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on <u>28 Ar</u> This action is FINAL . 2b)☑ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) ☐ Claim(s) 4,16,20,27-54 and 57-60 is/are pendir 4a) Of the above claim(s) 27-54 is/are withdraw 5) ☐ Claim(s) 57 and 58 is/are allowed. 6) ☐ Claim(s) 4,16,20,59 and 60 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	n from consideration.	
9) The specification is objected to by the Examine	r	
10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the confidence of th	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of the certified copies of the attached detailed Office action for a list of the certified copies 	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 4/28/08.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 4/28/2008 has been entered.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 4, 16, 20, 59 and 60 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Claims 4, 16, 20, 59 and 60 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for an isolated nucleic acid encoding the polypeptide of SEQ ID NO: 18 or amino acids 1-921 of SEQ ID NO: 20, does not reasonably provide enablement for any other CATERPILLER 11.3 polypeptide or any functional fragment of a CATERPILLER 11.3 polypeptide. Furthermore, the specification does not enable the detection of the modulation

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of an activity of the CATERPILLER 11.3 polypeptide. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention commensurate in scope with these claims. This rejection is maintained for reasons set forth in the Office Actions dated 4/23/2007, 12/31/2007, and for reasons set forth below.

Regarding new claims 59 and 60, the specification does not describe any "function" of CLR11.3 at the molecular level. The only functional information for CLR11.3 provided in the specification (page 114, lines 1-13) is that overexpression of CLR11.3 in a cell carrying an NFκB-dependent reporter gene reduces induction of the reporter gene in response to overexpression of MyD88 or NIK, i.e. it appears to have a negative regulatory activity in certain inflammatory signaling pathways. However, the specification does not disclose where specifically in the pathway CLR11.3 acts, or what it does or interacts with at the molecular level to reduce induction of expression from an NF-κB-dependent promoter. It is not clear whether inhibition of MyD88- or NIK-mediated induction of an NF-κB-dependent promoter are the only biological activities of CLR11.3. The specification does not describe a "function" known to be associated with the leucine -rich repeats of CLR11.3. Also, the specification does not disclose what part or parts of CLR11.3 are required for the disclosed activities. With respect to new claim 60, the specification does not teach that CLR11.3 has the function of modulating a TOIl-like receptor pathway itself, nor does the specification teach any changes in sequence of CLR11.3 that would confer such an activity.

Except for the general effects on induction of NF-kB-mediated expression possessed by the entire human CLR11.3, the specification does not describe the other presumed biological

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activities or assays to detect the activities, much less "functional fragments" that possess at least one of these unknown activities. Consequently, there is no evidence that Applicant was in possession of any functional fragments of the disclosed human CLR11.3 polypeptide, and identifying such fragments would require undue experimentation to first identify just what those activities are and then determine what fragments possessed the activities. Indeed, such knowledge was not available until 2008 (see Moore et al, 2008, cited by applicants), underlining that the invention was not enabled or described commensurate in scope with the claims until after the desired filing date (4/30/2002).

Response to Arguments

Applicant's arguments filed 4/28/2008 have been fully considered but they are not persuasive. Applicants essentially assert that: 1) Moore et al (2008) teaches that certain domains of the CATERPILLAR 11.3 are involved in the interaction with MAVS; 2) the claims have been amended to remove the "functional" language.

Regarding 1), a reference published in 2008 cannot serve to enable an application with a filing date of 4/30/2002.

Regarding 2), it is noted that applicants correctly assert that the amendments do not have a narrowing effect (page 10 of the remarks, second full ¶. Thus, it unclear how, if the scope of the claims remains unchanged or is broader, these amendments can somehow overcome this rejection. The scope of the claims, read in light of the specification and relevant art, clearly encompasses functional proteins and fragments of such proteins. For example, the method claims 59 and 60 clearly require them. Furthermore, if applicants intend to assert that the claims

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do not encompass functional polypeptides, then the issue of utility under 35 USC 101 arises.

What specific and substantial use do non-functional proteins have?

Conclusion

Claims 57 and 58 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL BURKHART whose telephone number is (571)272-2915. The examiner can normally be reached on M-F 8AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Woitach can be reached on (571) 272-0739. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Michael Burkhart/ Primary Examiner, Art Unit 1633